…the innovative hot water solution.

Electronic water dispenser system

Zip HydroTap® SPARKLING and BCS 120/125

Operating and installation instructions

800662DE v1.21 06.14

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The installation template for the tray is located on the pull-out inside pages of this Manual.

1. Safety Instructions

Installation, initial operation and maintenance of this appliance must only be carried out by an authorised professional, who will then be responsible for adherence to applicable standards and installation regulations. We assume no liability for any damage caused by failure to observe these instructions.

Do not use the appliance until it has been correctly installed and unless it is in perfect working order.

The Zip HydroTap SPARKLING contains pressurized coolant R134a. The appliance must not be exposed to naked flames. Maintenance of the cooling unit must only be carried out by our authorised service staff or a qualified tradesperson.

When operating the unit with a carbon dioxide gas bottle it is essential to read and follow the safety data sheet enclosed with the gas bottle. Both the gas bottle itself and the gas-carrying parts of the Zip HydroTap SPARKLING are under high pressure.

Please note that the room where a carbon dioxide gas bottle is stored must have a minimum room volume of 38 m^3 for every kg of bottle capacity.

The unit is designed for indoor use only. It must be protected from environmental influences.

Small quantities of steam or boiling water may discharge through the tap at any time. Ensure the tap is positioned so that this water falls into the sink and can drain away.

The ambient temperature must be between 5° C and 35° C. Adequate ventilation must be provided and the appliance must never be exposed to frost.

Switch off the power supply immediately if a fault occurs. In the event of a leak in the unit, turn off the cold water supply immediately and turn off the gas bottle. Repairs must only be carried out by the customer service or an authorised professional.

Caution when lifting. The unit is heavy. For safety reasons, one person should not attempt to lift it on their own. The exact weight is shown in the Technical Data.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.

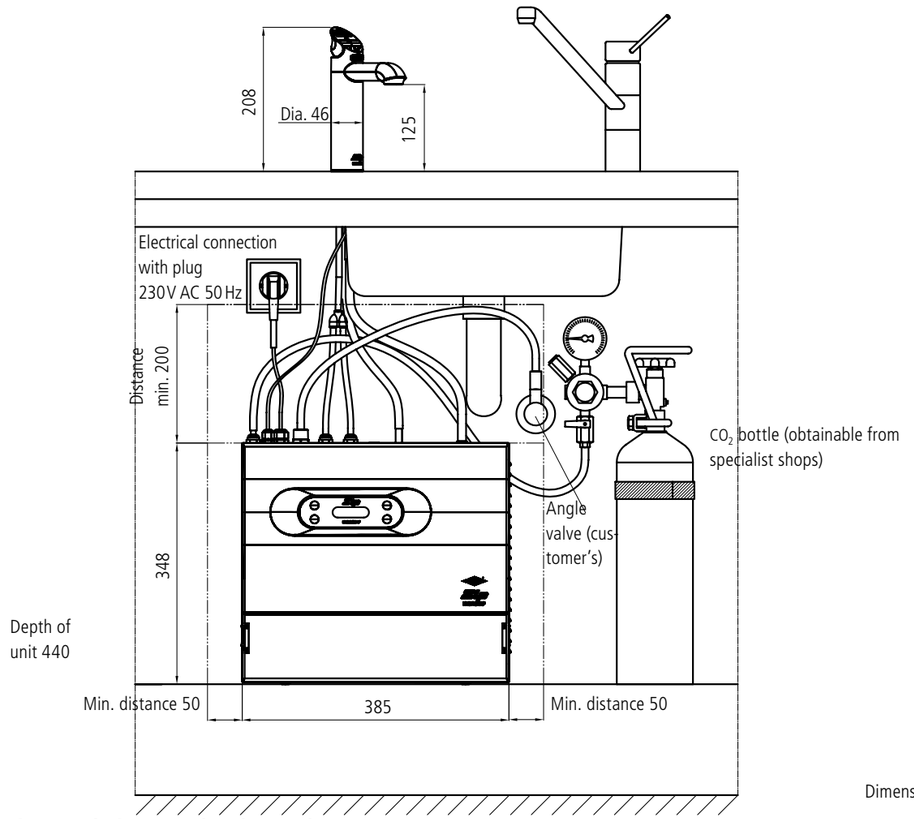
2. Description of Appliance

The Zip HydroTap SPARKLING and the BCS 120/125 are electronically controlled systems which deliver filtered boiling water as well as chilled still and sparkling drinking water for kitchens and pantries. The appliance itself is stowed away out of sight below the sink and the water is dispensed via a special tap. The tap can be positioned alongside the kitchen tap or separately with a flat draining tray, as desired.

3. Technical Data

Model		Zip HydroTap SPARKLING	Zip HydroTap BCS 120/125
Article number		4100-44250	4100-44275
Rated voltage / rated power		230 V AC / 1.64 kW	230 V AC / 2.14 kW
Rated pressure	kPa / bar	140 – 600 / 1.4 – 6.0	
Hot water temperature range	°C	68 – 100	
Hot water tank volume	litres	2	
Cold water temperature range	°C	3 – 6	
Sparkling water volume		Instantaneous carbonisation	
Carbon dioxide bottle connection thread		Soda Club	W 21.8 × 1 / 14 RH
Carbon dioxide rated pressure	kPa / bar	270 / 2,7	
Water connection		G ½"	
Size (H × W × D)	cm	35 × 38.5 × 44	
Weight (filled)	kg	33.5	
Ambient temperature	°C	5 – 35	
Coolant / quantity		R134a / 85 g	
Protection class according to VDE		Class I	
Type of protection		IP20	

4. Installation



Dimensions in mm

The following regulation must be observed:

- Local power and water companies' regulations
- Technical data and information on the rating plate

Before installation, ensure that:

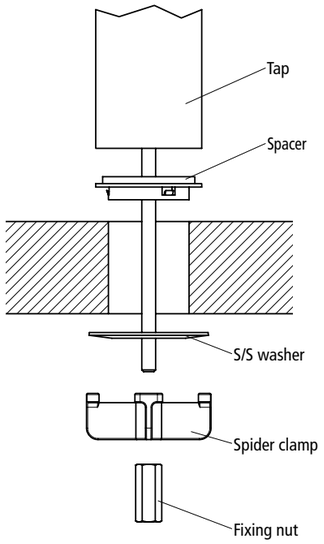
- There is enough room for the undersink unit, the carbon dioxide bottle and the additional ventilation (see drawing above).
- The undersink unit and the carbon dioxide bottle will stand upright on a horizontal surface.
- A socket fitted with at least a 10 A fuse is available within reach of the power cord and the socket will still be accessible after the unit has been installed.
- A water supply connection at the rated pressure of the appliance with an isolating valve is available within reach of the feed pipe and the connection will still be accessible after the unit has been installed.

In addition to standard tools, the following special tools may be required:

- 35 mm diameter sheet metal hole punch for sink tops (not supplied)
- 35 mm diameter hole saw for timber worktops (not supplied)
- Pipe wrench (supplied) for fixing the tap

Handling the plastic hoses and push-fit connector (supplied):

- If shortening the hoses be sure to make a clean cut straight across the hose, using a sharp blade. Never pinch off the hose with a blunt instrument.
- The hoses must not be under tension when installed. The minimum bending radius is 25 mm. If there is a kink in the hose, there is a risk of leakage at the kink.
- Push the hose into the quick-release connector as far as it will go (approx. 15 mm) to ensure a tight connection.



Installing the tap

Note: The tap must not be installed more than 900 mm above the base of the undersink unit. Failure to do this may result in poor water delivery.

Note: Under no circumstances should the tap be twisted after the installation is complete.

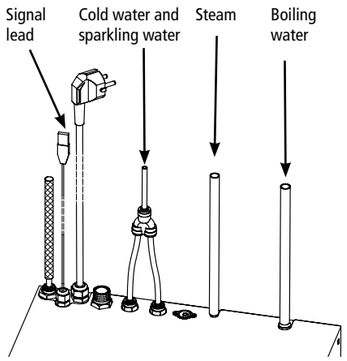
1. Make sure that the tap location will allow water from the tap to fall into a sink or other basin fitted with a drain to drain away.
2. Cut a 35 mm diameter hole in the worktop/sink at the place where the tap is to be installed.
3. Push the black spacer on to the tap from underneath and ensure it remains in position. A light smearing of silicone sealant on the underside of the spacer will ensure a watertight fit.
4. Pass the hoses down through the 35 mm hole in the worktop/sink and locate the tap head on its mounting location.
5. From the underside, push the stainless steel washer over the hoses and then push the spider clamp on to the threaded rod of the tap fitting. Secure the spider clamp with the fastening nut. Check the tap head is in the correct position before tightening up the nut.

Installing the undersink unit

Note: An air gap of at least 50 mm at the left and right of the unit must be provided for adequate ventilation. If the unit is to be operated inside a cupboard, the silicone buffers supplied should be affixed to the inside edge of the cupboard doors. The 4 mm air gap thus created provides a minimum fresh air supply.

Note: Additional ventilation must be ensured if the temperature in the base unit exceeds 35°C.

1. Position the undersink unit as close to the tap as possible.
2. Connect the water inlet to the angle valve (not supplied). Use the flexible hose supplied to make this connection.
3. Connect the tap hoses to the undersink unit. Ensure there is a constant fall from the tap down to the undersink unit. Trim the hoses to avoid loops and kinks. The hoses must not be lengthened. Use the spring clamps supplied to fasten the silicone hoses in place.
   a. Connect the red marked silicone hose to the boiling water connection.
   b. Connect the unmarked silicone hose to the steam connection.
   c. Connect the Y adapter to the steel connecting pipe of the tap.
   d. Connect both the cold water connection and the sparkling water connection of the undersink unit to the free ends of the Y adapter. First trim the plastic hoses to the required length and fit the pipe insulation over them.
4. Connect the signal leads of the tap and the undersink unit. Attach the plug connection at a location away from any water splashes.
5. Position the carbon dioxide gas bottle upright against a wall within reach of the gas connection hose.
6. Install the gas bottle holder at the location where the carbon dioxide bottle is to stand so that it can be secured against toppling over.
7. Secure the gas bottle in an upright position to the gas bottle holder.
8. Connect the undersink unit to the pressure reducer for the gas bottle using the braided hose supplied.



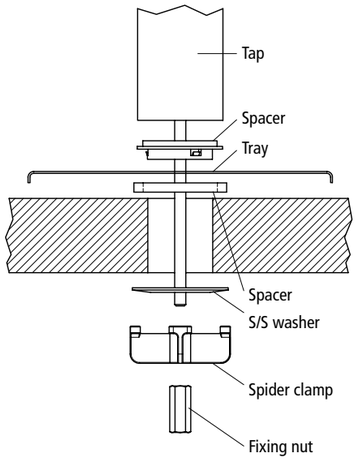
9. Connect the pressure reducer to the gas bottle:
   a. SPARKLING: Turn the pressure adjusting screw on the pressure reducer anticlockwise as far as it will go (no pressure). Then quickly screw the gas bottle into the pressure reducer, as far as it will go.
   b. BCS 120/125: Turn the pressure adjusting screw on the pressure reducer anticlockwise as far as it will go (no pressure). Then connect the pressure reducer to the gas bottle. Tighten the union nut moderately tight.

Note: The carbon dioxide gas bottle must always be used in the upright position to ensure that the pressure reducer operates correctly and thus ensure the safety of the unit.

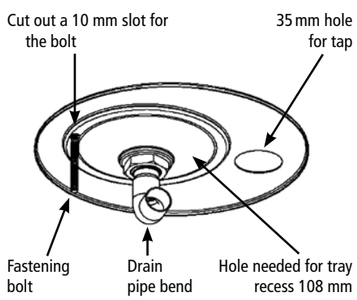
Note: The carbon dioxide gas bottle must not be exposed to heat. Please do not exceed the maximum ambient temperature of 35°C. Provide cooling if necessary.

Optional: Installing the tray

The tray (article number: 44101) is an accessory which can be used to install the tap independently of a kitchen sink.

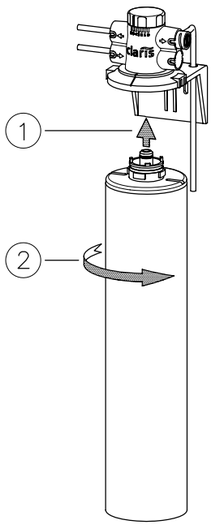


1. Ensure that a water supply, a drain, a socket fitted with at least a 10A fuse and enough room for the undersink unit are all available at the tray installation location.
2. Place the template supplied over the tray installation location.
3. Cut out the holes as indicated on the template.
4. Insert the tray. Place the plastic spacer between the worktop and the tray at the 35 mm hole. Working from below, fasten the tray to the threaded rod using the washer and nut supplied.
5. Install the tap as described from point 3 onwards of 'Installing the tap'.
6. If the drain bend is facing the wrong way, slacken off the fastening nut above the bend, turn it to the correct position and then tighten up the fastening nut again.
7. Connect the drain bend to a siphon connecting sleeve, using a 22 mm diameter hose. If no siphon connecting sleeve is available, use the snap connecting sleeve.
   a. Place the snap connecting sleeve on the side of the siphon facing the sink. Drill a 13 mm diameter hole in the drain pipe behind the snap connecting sleeve for a drain connection. Use a suitable sealant to make a watertight seal between the snap connecting sleeve and the drain pipe.



View from below

4. Installation



Filter head article number: 44115
Filter candle article number: 84500

Optional: Installing an external ion exchanger

An external ion exchanger can be used to prevent limescale deposits in the undersink unit and thus extend the maintenance intervals.

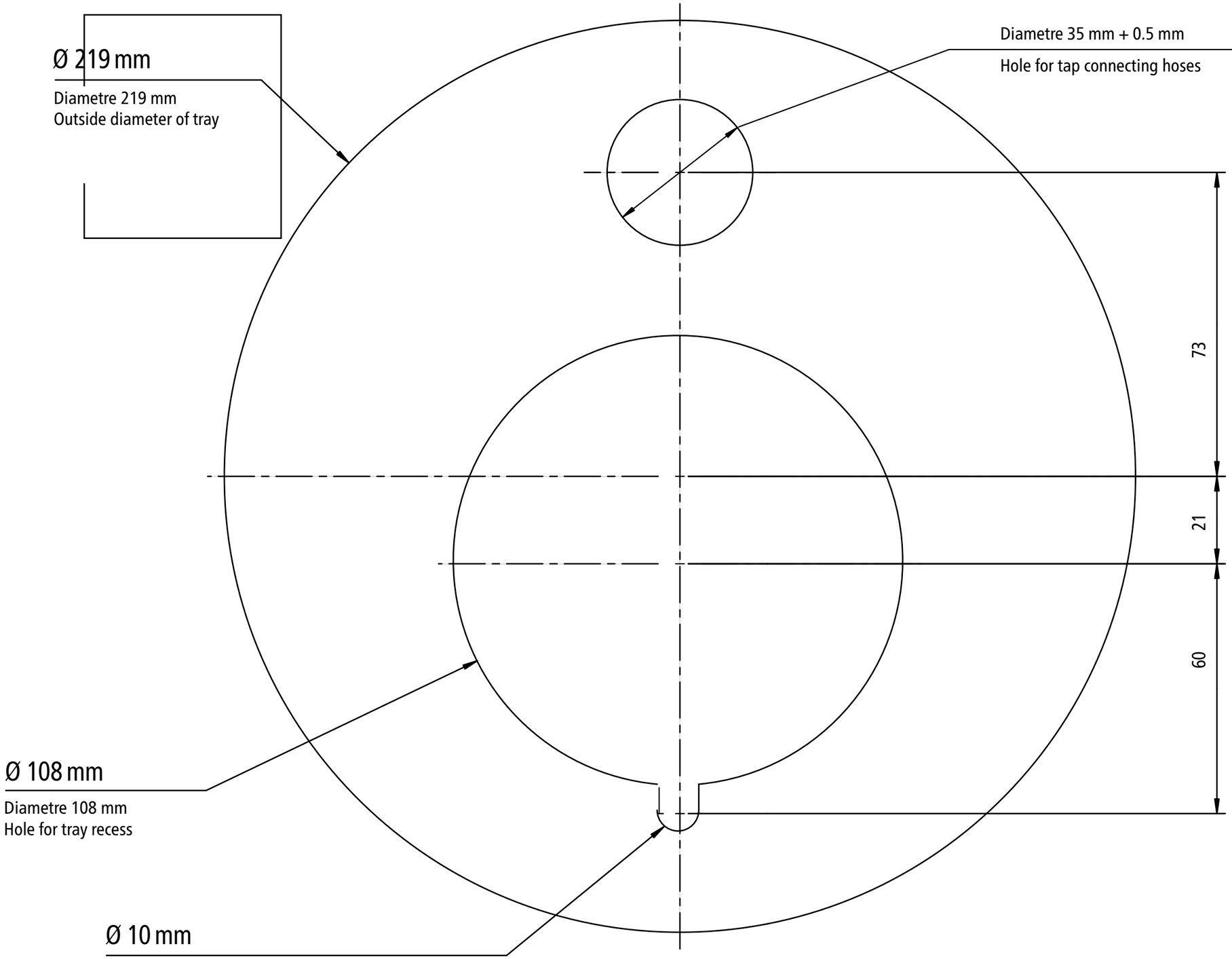
Note: If installing an external ion exchanger, follow the instructions supplied for the filter head and filter cartridge.

1. Connect the filter head to the 'external filter' connections at the rear of the undersink unit. Note the flow direction as indicated by the arrows marked on the filter head and the label on the undersink unit.
2. Open the front cover of the undersink unit and turn the lever to the 'external filter' position.

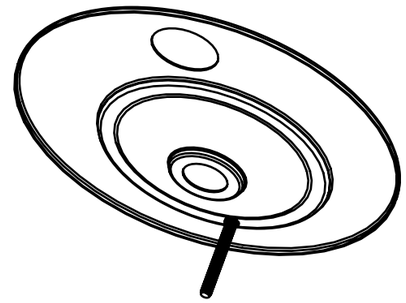
Commissioning

1. Before using the unit for the first time, flush through the connecting pipes and hoses thoroughly. To flush, detach the flexible hose from the water inlet of the undersink unit and hold it over a drain or bucket. Turn on the water and allow it to run for several minutes. Then reattach the hose to the water inlet of the undersink unit and check the installation for leaks.
2. Set a pressure of 2.7 bar on the pressure reducer of the carbon dioxide gas bottle. Turn the adjusting screw anticlockwise to reduce the pressure. Turn it clockwise to increase the pressure.
3. Check the gas-carrying connections for leaks. Caution - gas released can be very cold. Use a leak detecting spray or soapy water so that even minor leaks will be detected.
4. If no leaks occur, plug the plug into the socket to activate the unit.
5. The screen will first display the unit model name and then the message Adjust ∧. Press the Adjust ∧ button to start the purge cycle.
   a. Carbon dioxide will discharge from the tap during this purging process.
   b. This purging will stop automatically.
6. The message Adjust ∧ will appear on the display. Press the Adjust ∧ to flush the filter.
   a. Allow water to flow out of the tap for about three minutes, then press the Adjust ∧ button again to stop filter flushing.
7. Press Adjust ∧ to start temperature calibration. During this process the boiling point of water will be determined and the boiling water temperature will be set accordingly. Calibration takes five to ten minutes. During this time the red LED will flash and steam may discharge from the tap.
8. The unit will then be in normal operating mode. Wait for the LED to show a steady light, and then check the water flow and the temperature.

Installation template for the tray



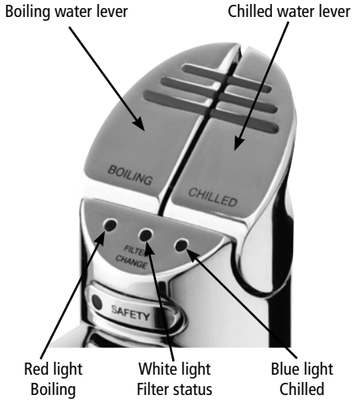
Installation template for the tray



Scale: 1:3,3

Scale: 1:1

Note: If the drinking water system has not been used for several days, allow the tap to run cold water for about five minutes.



Operation

Press the red lever to dispense boiling water. Pull the lever up to dispense boiling water continually. The water will flow for 5 to 15 seconds. This time can be set in the menu. The lever then has to be manually returned to the Off position.

Press the blue lever to dispense cold water. Pull the lever up to dispense cold water continually. The water will flow for 5 to 15 seconds. This time can be set in the menu. The lever then has to be manually returned to the Off position.

Press the red and blue levers simultaneously to dispense sparkling water with carbon dioxide added. Pull the levers up to dispense sparkling water continually. The water will flow for 5 to 15 seconds. This time can be set in the menu. The levers then have to be manually returned to the Off position.

Red boiling water LED

- on all the time: boiling water is ready and can be dispensed.
- flashing: the water temperature is below the set value.
- flashing slowly: Sleep mode is enabled.

Blue cold water LED

- on all the time: temperature of cooled water is at the set temperature.

White filter LED

- flashing: the filter needs to be replaced. This LED starts flashing according to filter use and the filter capacity set in the menu.

Child safety lock

A child safety lock can be enabled to prevent boiling water flowing out of the tap if the boiling water control is accidentally operated. To draw boiling water when the child safety lock is enabled, the Safety button has to be pressed and held down at the same time as the red lever.

To enable the child safety lock, press the Safety button and the blue cold water lever at the same time and hold for about ten seconds. The LED on the Safety button lights up when the child safety lock is enabled.

To disable the child safety lock, press the Safety button and the blue cold water lever at the same time and hold for about ten seconds. The LED on the Safety button goes out when the child safety lock is disabled.

Menu

Basic settings can be carried out in the menu. Use the 'Menu ∧' and 'Menu ∨' buttons to browse through the various options. Adjustable parameters can be adjusted with the aid of the Adjust ∧ and Adjust ∨ buttons. Parameters that are not adjustable are indicated by '[Info]' in the list that follows.

- Litres filtered [Info]: quantity of water that has passed through the filter.
- Filter max. litres: the maximum quantity of water that can be filtered by the filter. Adjustable between 1,000 and 10,000 litres in 1,000 increments. The value that should be set can be found in the filter data.
- 'Day' off: deactivates the Zip HydroTap SPARKLING on the day of the week indicated at the selected time to save energy.

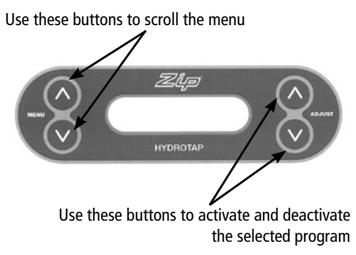
5. Using the Tap

- 'Day' on: activates the Zip HydroTap SPARKLING on the day of the week indicated at the selected time.
- CO_2 purge: purges the water from the carboniser, using carbon dioxide.
- Dispensing time cold: the maximum dispensing time for chilled water until dispensing stops automatically. Adjustable between 5 and 15 seconds.
- Dispensing time hot: the maximum dispensing time for boiling water until dispensing stops automatically. Adjustable between 5 and 15 seconds.
- Scald protection: To enable the additional scald protection, press Adjust ∧ and then press the Safety button on the tap three times in quick succession. Scald protection disables the boiling water function. To disable scald protection for 30 seconds, press the Safety button three times in quick succession.
- Sleep mode: Sleep mode can be activated to save energy. If Sleep mode is enabled, the unit will switch to Sleep if it has not been used for two hours. The water temperature will be maintained at 65°C. Operation of the tap during this time will wake the system from sleep and the water will heat up to the set temperature again. Boiling water is available as soon as the red LED shows a steady light.
- Filter use (days) [Info]: number of days the filter has already operated.
- Filter max. life: the maximum service life of the filter in months. The value that should be set can be found in the filter data.
- Flush filter: if this is activated, water will be pumped through the filter to flush out a new filter.
- Day: the current day of the week.
- Time: the current time.

Service menu (for specialists only)

Note: Do not make any changes to the settings in the Service menu unless you are fully aware of their effects.

To open the Service menu press the Adjust ∧ and Adjust ∨ buttons simultaneously until the current boiling water temperature and cold water temperature are shown in the display. Use the 'Menu ∧' and 'Menu ∨' buttons to browse through the various options. These are detailed below:



- Actual temperature values

  Hot Temp: current temperature of water in the boiling water tank.

  Hot Lvl: current level in the boiling water tank. Lvl1 = tank empty, Lvl2 = tank half full, Lvl3 = tank full

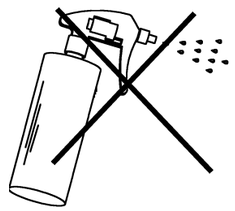
  Cold Temp: current temperature of water in the cold water tank.

  Cold Lvl: current level in the cold water tank. Lvl1 = tank empty, Lvl2 = tank full
- Automatic sleep mode: N/A
- Boil (sec): do not adjust (default is '6').
- Time (min) [Info]: N/A
- Correct litres: rounds the water meter down to the nearest hundred.
- Adjust boiling water temperature:

  Use the Adjust ∧ and Adjust ∨ buttons to adjust the set temperature of the boiling water between 68°C and 100°C in 0.5°C increments. CAUTION: a temperature of more than 98.5°C is not advisable in normal conditions.

To exit the Service menu, press the Adjust ∧ and Adjust ∨ buttons simultaneously until 'Normal Operation' appears in the display.

6. Cleaning and Maintenance



Cleaning

The plastic surfaces and taps should only be wiped with a damp cloth. Do not use abrasive or chlorine-based cleaning agents or solvents.

Do not clean the undersink unit and tap with a water jet, as that could damage the electronic components.

CO_2 Bottle Replacement

If the carbon dioxide gas bottle is empty, replace it as follows:

1. Close the red lever on the pressure reducer
2. Turn the pressure adjusting screw on the pressure reducer anticlockwise as far as it will go (no pressure).
3. Replacing the carbon dioxide gas bottles:
   a. SPARKLING:
      - Unscrew the gas bottle from the pressure reducer.
      - Remove the gas bottle and secure the new gas bottle in place on the holder so that it cannot topple over.
      - Quickly screw the new, full gas bottle into the pressure reducer, as far as it will go.

   b. BCS 120/125:
      - Close the shut-off valve on the gas bottle.
      - Undo the union nut connecting the gas bottle to the pressure reducer.
      - Remove the gas bottle and secure the new gas bottle in place on the holder so that it cannot topple over.
      - Connect the pressure reducer to the new, full gas bottle. Tighten the union nut moderately tight.
4. Set a delivery pressure of 2.7 bar on the pressure reducer of the carbon dioxide gas bottle. Turn the adjusting screw anticlockwise to reduce the pressure. Turn it clockwise to increase the pressure.
5. Open the red lever on the pressure reducer
6. Check the gas-carrying connections for leaks. Caution - gas released can be very cold. Use a leak detecting spray or soapy water so that even minor leaks will be detected.

Note: The carbon dioxide gas bottle must always be used in the upright position to ensure that the pressure reducer operates correctly and thus ensure the safety of the unit.

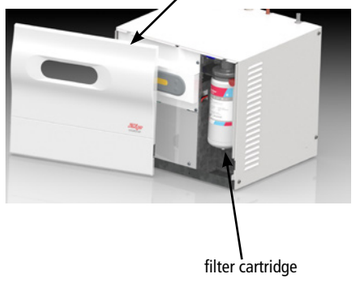
Note: The carbon dioxide gas bottle must not be exposed to temperatures higher than 35°C. Cooling should be provided if necessary.

6. Cleaning and Maintenance

Replacing the filter

If the white LED on the tap flashes, that indicates that the internal filter needs to be replaced. The filter replacement interval is calculated from the values entered in the menu for the maximum filter life and the maximum filter capacity and the consumption values measured by the unit. The filter may have to be replaced earlier if an unpleasant odour or taste occurs.

Water may drip out of the filter holder during replacement. Have a bucket and cloths ready to mop up any water that escapes.



1. Close the isolating valve to shut off the water supply.
2. Open the front plastic cover of the undersink unit.
3. Turn the filter cartridge one quarter turn anticlockwise, as far as it will go.
4. Carefully pull the filter cartridge out of the filter holder from below. Hold the cartridge level to avoid spilling dirty water.
5. Unpack the new filter cartridge and write today's date in the space provided at the label. Avoid contact with the O-rings and filter opening, as that could result in bacterial contamination of the filter.
6. Push a new replacement filter cartridge into the filter holder and turn it clockwise as far as it will go to lock it in position.
7. To flush the new filter, press the Adjust ∧ button to activate the 'Flush filter' option in the menu (as described in the Menu section of this manual) and allow the water to flow for about three minutes before pressing the Adjust ∧ button again to deactivate 'Flush filter' again.
8. Select the 'Litres filtered' option in the menu and press the Adjust ∧ button to reset the filter replacement display. When prompted, press Adjust ∧ again to confirm. The display will reset after approx. ten seconds.
9. Dispose of the used filter correctly.

Other maintenance

Regular servicing is needed to keep the unit working efficiently at all times. Please contact customer service for more information about the servicing of your unit.

7. Environment and Recycling

Your product was manufactured from high-quality, reusable materials and components. Please respect in case of discarding that electrical devices should be disposed of separately from household waste at the end of their service life. Therefore, please take this device to a municipal collection point that accepts electronic scrap on a free of charge basis. Disposing it correctly will support environmental protection and will prevent any potential negative effects on human beings and the environment that could arise from inappropriate handling of these devices at the end of their service life. Please contact your local authority for further details of your nearest designated collection point or recycling site.
Business customers: If you wish to discard electronic equipment, please contact your dealer or supplier for further information.

8. Troubleshooting

If a problem occurs with your Zip HydroTap unit, the cause is often something very simple. Try to resolve the problem yourself with the aid of the table below. That will help you avoid the expense of an unnecessary call-out.

Problem	Cause	Remedy
No LED display and no water flows when tap is operated.	No power.	Check power supply.
	Tap is not connected to undersink unit.	Check plug connection between tap and undersink unit.
	Possible internal fault.	Contact customer service.
No water flow when tap is operated.	No water.	Check water supply.
	Tap is not connected to the undersink unit.	Check hoses between tap and undersink unit.
	Water is not at boiling temperature.	Wait for water to reach boiling temperature.
Unit is slow to refill after drawing water.	Filter blocked.	Check whether the white LED is flashing, indicating that the filter needs to be replaced.
Water not hot.	Unit is in Sleep mode.	Press red lever and wait for red LED to show a steady light.
	Possible internal fault.	Contact customer service.
Water not cold.	Very frequent use.	Wait for the blue LED to show a steady light.
	Possible internal fault.	Contact customer service.
All LEDs are flashing.	Power interruption.	Switch off unit, wait 15 minutes and then switch on again.
	Water interruption.	Check water inlet for blockages.
	Possible internal fault.	Contact customer service.

If you cannot rectify the fault with the aid of this table, please contact:

CLAGE GmbH
Central Customer Service

Pirolweg 8
21337 Lüneburg
Germany

Tel.: +49 4131 - 89 01-40
Fax: +49 4131 - 89 01-41

E-mail: service@clage.de
Internet: www.clage.de

9. Quick Guide

To dispense boiling water:
Press or pull up red lever

Boiling water ready:
Red LED is lit

To dispense chilled water:
Press or pull up blue lever

Chilled water ready:
Blue LED is lit

To dispense sparkling water:
Press or pull up both levers simultaneously

Sparkling water ready:
Blue LED is lit

Dispensing when child safety lock is enabled:
Press the Safety button at the same time

Child safety lock enabled:
Red LED is lit

Use these buttons to scroll the menu

Use these buttons to activate and deactivate
the selected program

10. Warranty and Registration

This is a precision unit made from the best available material. It can be expected to function for many years without any problems.

No warranty applies to the life of a filter cartridge installed with the unit, as the life of the cartridge depends on the water quality and water consumption rate.

These warranty conditions apply only to our units purchased and used in the Federal Republic of Germany.

For other countries, the warranty stipulated in the terms of sale and delivery or according to the statutory warranty provisions of the country concerned applies. This warranty does not affect the customer's statutory warranty rights (performance, cancellation, compensation and reduction of the purchase price). We provide this warranty voluntarily as the manufacturer.

Our warranty period is 24 months from the date of purchase on a water heating appliance for home use and 12 months in the case of commercial/industrial use. No claims under the warranty will be considered unless the warranty certificate supplied with the unit has been duly and completely filled in. The warranty certificate must be produced along with the purchase receipt if making a claim under the warranty. We suggest you send us the warranty certificate for registration after your unit has been installed.

No claims under the warranty will be considered in the case of damage or malfunction due to limescale, chemical or electrochemical agents, incorrect use, incorrect connection, fouling up of the water inlet or outlet fittings, failure to follow the installation, maintenance and use instructions, unauthorised modifications to the unit or use of spare parts not originating from the manufacturer.

Natural wear and tear of the unit is likewise not covered by the warranty.

Any damage/defects occurring must be notified to us in writing within 14 days of becoming apparent. We will then consider whether a claim under the warranty is valid in law. If so, we will decide how the damage/defect is to be remedied, i.e. by an authorised service contractor or by our own Service department.

The Zip and HydroTap names are registered trademarks of Zip Heaters (Aust) Pty Ltd. Zip products described in this publication are manufactured under one or more of the following patents: AU675601, AU637412, AU635979, GB0422305, GB2065848, US4354049, US5103859 and US5099825. Other patents are in force and other patent applications are pending.

Registration and Warranty Certificate

Please register your unit online at www.clage.de as soon as it has been installed

If this is not possible, please fill in the registration slip below and fax or post it back to Central Customer Service. Registering your unit can make it easier to establish the date of installation if work ever has to be done on the unit under the warranty.

Unit Data	Model:	Art. No.:	Serial No.
Date of purchase (refer to receipt)			Purchased from:
User	Name:		Tel.:
	Address:		E-mail:
	Postcode:	Town/city:	
Installer (or dealer)	Company:		Tel.:
	Address:		Fax:
	Postcode:	Town/city:	E-mail:
Application	☐ Home ☐ Business		

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Internet: www.clage.de

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Instant Boiling Water

Subject to change 9120-91933 06.14 Zip

We want to know what you think.

We would like to know what you think of this product in terms of its quality, ease of use, the user manual, etc.

CLAGE GmbH
Central Customer Service

Pirolweg 1 – 5
21337 Lüneburg

Germany